37th Session of meetings of the IEEE 802.15 Working Group for Wireless Personal Area Networks

July 18-22, 2005

Hyatt Regency Embarcadero
San Francisco, CA, USA

Closing Report

TG3a
San Francisco Closing Report

22 July, 2005

TG3a: ALT PHY

- MB-OFDM no voter response presented.
- Second confirmation vote held
  - Result: MB-OFDM confirmation failed
- Chair selection vote held
  - Result: Jim Lansford and Gregg Rasor selected as co-chairs
  - WG confirmation at closing Plenary
- Technical contributions heard
- Plans for September – continue down-select process

Motion

The 802.15 working group confirms the selection of Chair candidates from TG3a as follows:

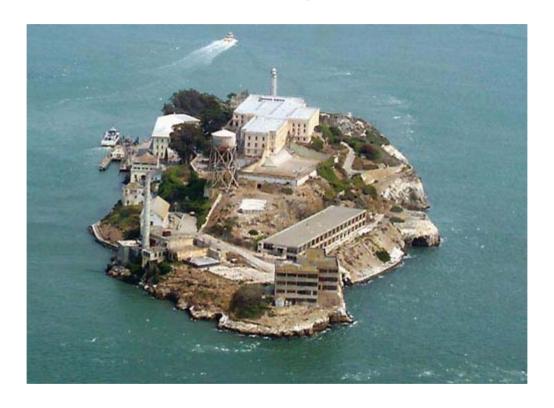Co-chairs: Jim Lansford and Gregg Rasor

Mover: Rick Alfvin
Seconded: James Gilb

Yes: all
No: none
Abstain: none

TG3a next meeting site - Alcatraz

See you in September!

TG3c
San Francisco Closing Report

22 July, 2005

1. **16:00 Monday. 18 July. Call to order.**

2. **TG3c Leadership:**
    Chair: R. Fisher.
    vice Chairs: H. Ogawa, A. Mathew
    Secretaries : H. Ikeda, S. Yong

3. **Attendance:**
    55 attendees

4. TG3c Achievements:

-Discussion on WCA petition to FCC

-Update of Channel modeling activity

-TG3c System Requirements approved

-Update of Call For Intent (CFI)

-Project Timeline updated

5. 9:45 Thursday. 21 July. Meeting ends

6. Contributions:

05/435r2, Agenda, R. Fisher

05/417, WCA Chronology, R. Fisher

05/308, Comments on the WCA Petition for Rulemaking – Amendment of Part 15 Rules for License-Exempt 57-64 GHz Band

05/400, Comments on WCA Petition to Change FCC Regulations Governing the Unlicensed 57 – 64 GHz Band, J. Gilb

05/432, WCA 60GHz Proposal FAQs, G. Levin

05/433, Reply to Comments on WCA Petition to Change FCC Regulations Governing the Unlicensed 57 – 64 GHz Band, G.Levin

05/412, Proposed 60 GHz Channel Model and Measurement Campaign: S. Skafidas

05/394, 60 GHz Indoor Channel Modeling Results : S. Emami

05/388, Transmission Calculations of layered structures at 60 GHz, K. Siwiak

05/384, Australian 60 GHz Regulation, T. Pollock

05/425, Proposal of Introducing "IF-mmW Non-regenerative repeater mode" into15.3c PHY, H. Ogawa

-**05/438**, Throughput calculation discussion,. J. Gilb

05/423, Projected applications and date rate, A. Mathew

05/425, Proposal introducing if-mmw non regenerative repeater mode into15 3c PHY, H. Ogawa

05/448, Proposed Rate Range requirements 802 15 3c, S. Skafidas

05/442/r1, Comments WCA Petition to change FCC regulations governing unlicensed 57-64 ghz band, G. Baldwin

05/430, TG3 Technical requirement sub-group report, A. Seyedi

05/431, TG3c rate-range requirements, A. Seyedi

05/439, CFI Respons, R.Fisher

05/353r5, TG3c System Requirements, A. Seyedi

Motion to approve 18-05/023r2

"Comments on the Petition for Rulemaking- Amendments of Part 15 Rules for License-Exempt 57-64 GHz Band"

As the 802.15 working group position on the WCA petition to the FCC.

Move: R. Fisher

Second: J. Gilb

Yes: 36

No: 0

Abstain: 0

Note: The original15-05/308r0 was sent to WG18 and was modified. Then it became 18-05/023r2 in WG18.

TG4a
San Francisco Closing Report

22 July, 2005

Meeting Objectives

- **Update the full list of technical issues in the editing areas of UWB, Ranging, CSS/2.4 GHz, and MAC ✓Done!**

- **Hear presentations and discussions on the above mentioned technical issues ✓Done!**

- **Hear presentations and discussions on proposals to resolve the above technical issues ✓Done!**

- **Clarify energy detect receiver role in this standard ✓Discussed but not resolved**

- **Resolve between the Two and Four way Ranging issue ✓Discussed but not resolved**

Meeting Objectives (cont'd)

- **Conclude Band Plan Review and if Necessary Modify Existing Band Plan** ✓**Done, existing band plan was reaffirmed!**

- **Finalize Pulse Compression Discussion and Vote on Resolution** ✓**Preamble Done! but data not yet!**

- **Stretch Goal: Resolve Modulation Issue** ✓**Not Done!**

- **Discuss TG4a Activity Between July and September Meetings** ✓**Done!**

- **Revise Project Plan** ✓**Done!**

TG4a Schedule

	2004								2005												2006												2007		
	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
Task Group Formed	x																																		
Call for application created July 2003																																			
Selection criteria doc	x		x																																
Call for intent to propose			x																																
Call for proposal issued			x																																
Channel Models Release				x	x		x	x																											
Preliminary Proposals					x		x																												
Present final proposals									x		x																								
Baseline proposal selected											x																								
Proposal draft completed												x	x	x	x	x	x																		
1st letter ballot completed																		x																	
Resolution of comments completed																			x	x	x														
Re-circulation completed																						x													
Resolve re-circulation comments																							x												
2nd re-circulation																								x											
Resolve 2nd re-circulation comments.																									x										
3rd re-circulation																										x									
Resolve 3rd re-circulation comments.																											x								
Sponsor ballot period																													x						
Sponsor ballot comment resolution.																															x	x	x		
Re-circulation completed																																		x	x
RevCom Approval																																			x

TG4a Conference Calls

- Ranging   8 CDT Monday
- Modulation   8 CDT Wednesday
- MAC   9 CDT Monday
- Non-coherent   8 CDT Tuesday
- UWB   9 CDT Thursday
- Sub GHz UWB   11 CDT Thursday
- CSS   6 CDT Wednesday

TG4b
San Francisco Closing Report

22 July, 2005

Meeting Objectives

LB31 Comment Resolution	See next slide
Prepare Motion for Recirculation Ballot	See following pages.

Future Meeting Objectives

Jul 05 Plenary	Comment Resolution, get WG approval for Recirculation Ballot (done).
Sep 05 Interim	Comment Resolution & prepare draft.
Nov 05 Plenary	Comment Resolution, seek ExCom approval to go to 30 day Sponsor Ballot.
Jan 06 Interim	Resolve comments arising from Sponsor Ballot.
Mar 06 Plenary	Seek ExCom approval to submit draft to RevCom.
May 06 Interim	?
Jun 06	RevCom meets.

LB31 Comment Resolution Results

- Week Start: 416 open
  - (224 E, 123 T, 69 TR)

- Week End: 276 left to resolve
  - (205 E, 49 T, 22 TR)

Useful Documents

- 15-05-0434-00: Minutes

- 15-04-0237-08: Timeline

- 15-05-0395-0x: Comment Database

- 15-05-0463-00: This (Closing) report

Inter-session activity

- TG4b/MAC conference calls: Mondays 10AM EDT

- PHY conference calls to be scheduled starting 4 Aug, Thursdays 11AM EDT.

Motion

The 802.15.4b Task Group authorizes the TG4b ballot resolution committee to complete comment resolution and release the result to a recirculation of LB31 at least 15 days prior to the Garden Grove meeting.

Moved: Phil Beecher.

Seconded: Rene Struik.

(Passed by unanimous consent.)

Motion

The 802.15 Working Group authorizes the TG4b ballot resolution committee to complete comment resolution and release the result to a recirculation of LB31 at least 15 days prior to the Garden Grove meeting.

Moved: Robert Poor.

Seconded: Ed Callaway.

TG5
San Francisco Closing Report

22 July, 2005

TG5 WPAN Mesh
July 2005, San Francisco

Meeting Objectives

- Proposal Presentations

- Election of new chair

- Discussion on Project plan

Proposal Presentations

- Mesh Networking for IEEE 802.15.4 (15-05-0469)- Michael Sim, Panasonic

- Mesh Routing proposal (15-05-0443)- Yong Liu, Samsung

- Mesh PAN Alliance (15-05-0247) – Philips, Guido Hiertz

- An Architecture for Mesh Networks (15-05-0455) –Ho-in Jeon, Kyungwon Univ.

This Week

- Task Group decided to write a baseline document based on:
  - High Rate: Merged proposal between Philip's and Samsung's
  - Low Rate: Samsung's proposal
- The baseline document will be completed by September meeting to be reviewed by the Group to identify essential components to WPAN mesh but missing in the baseline document.
- TG will discuss at September meeting future project plan

Election of the new TG Chair

- Affirmation of Myung Lee to be the new TG chair by unanimous consent and sent to WG for approval

Next

Next Meeting

- Hyatt Regency, Garden Grove, CA, USA September 18-23